

IN THE CLAIMS:

1. **(Currently Amended)** A deviceDevice for handling banknotes[7]  
comprising: a transporting system, an infeeding and outfeeding unit  
arranged along said transporting system, which unit is adapted to the  
infeed and outfeed of banknotes, an identifying unit arranged along said  
transporting system, as well as a first, second and so on ~~to a last~~until an  
nth storage unit, wherein n is greater than 2, being arranged along said  
transporting system, each one adapted to the storage of banknotes, with  
said device being adapted to an infeed of a banknote through said  
infeeding and outfeeding unit, a transportation of said banknote by means  
of said transporting system past said identifying unit, an identification of  
said banknote by means of said identifying unit, a transportation of said  
banknote to a storage unit intended for said banknote according to said  
identification, as well as an infeed of said banknote to said intended  
storage unit from said transporting system, wherein said device comprises  
a central control unit adapted to communicate with a first local control  
unit arranged at said first storage unit, a second local control unit  
arranged at said second storage unit and so on ~~to a last~~an nth local  
control unit arranged at said ~~last~~nth storage unit, a position sensor, as  
well as said identifying unit, wherein said central and the respective local  
control unit have a common synchronous apprehension of the position of  
said transporting system, wherein, when said identifying unit has

identified a banknote, before said banknote reaches the first storage unit, and when the position of the banknote in said transporting system is established by said position sensor, said central control unit communicates the position of said banknote to the local control unit intended for said identified banknote, and wherein said intended local control unit directs the storage unit associated therewith to an infeed, being independent of other units, of said banknote from said transporting system to said storage unit when the banknote reaches said intended storage unit.

2. **(Currently Amended)** The deviceDevice according to claim 1, wherein the communication between said central control unit and intended local control unit takes place before said banknote reaches said first storage unit.

3. **(Currently Amended)** The deviceDevice according to claim 1, wherein upon an outfeed of a banknote from said device, said central control unit is adapted to communicate to the local control unit associated with the storage unit that stores said banknote that said banknote should be fed out to said transporting system, wherein said local control unit directs the storage unit associated therewith to an outfeed of said banknote to said transporting system, wherein said banknote is transported by means of said transporting system to said infeeding and

outfeeding unit, and wherein said infeeding and outfeeding unit feeds out said banknote from said transporting system and out of said device.

4. **(Currently Amended)** The deviceDevice according to claim 3, wherein, if said identifying unit is incapable of identifying a fed-in banknote with a particular certainty, said banknote is transported by means of said transporting system to said infeeding and outfeeding unit, and wherein said infeeding and outfeeding unit feeds out said unidentified banknote from said transporting system and out of said device.

5. **(Currently Amended)** The deviceDevice according to claim 3, wherein said infeeding and outfeeding unit is adapted to feed in each banknote that is inserted in said device to said transporting system, and to feed out each banknote from said transporting system that by means of said transporting system reaches said infeeding and outfeeding unit.

6. **(Currently Amended)** The deviceDevice according to claim 5, wherein said transporting system reverses back said banknote past said identifying unit for at least one additional transportation past said identifying unit for identification before said identifying unit is regarded to be incapable of identifying said banknote.

7. **(Currently Amended)** The deviceDevice according to claim 3, wherein an infeeding and outfeeding control unit, adapted to

communicate with said central control unit, is arranged at said infeeding and outfeeding unit, wherein said infeeding and outfeeding control unit has an apprehension of the position of said transporting system that is common to and synchronous with other control units, wherein upon an outfeed of a banknote from said device, said central control unit is adapted to communicate to the local control unit associated with the storage unit that stores said banknote and to said infeeding and outfeeding control unit a position of said banknote in said transporting system, wherein said local control unit directs the storage unit associated therewith to an outfeed of said banknote to said transporting system in said position, wherein said banknote is transported by means of said transporting system to said infeeding and outfeeding unit, and wherein said infeeding and outfeeding control unit directs said infeeding and outfeeding unit to an outfeed of said banknote from said transporting system and out of said device in said position.

8. **(Currently Amended)** The deviceDevice according to claim 7, wherein a banknote is permitted to be transported around a plurality of turns, and accordingly a plurality of times past said identifying unit, for identification before said identifying unit is regarded to be incapable of identifying said banknote.

9. **(Currently Amended)** The deviceDevice according to claim 8, wherein said central control unit, upon an infeed of a banknote to said

transporting system by means of said infeeding and outfeeding unit, is adapted to communicate a position of said infeed to said transporting system to said infeeding and outfeeding control unit, and wherein said infeeding and outfeeding control unit directs said infeeding and outfeeding unit to an infeed of said banknote into said device and to said transporting system in said position.

10. **(Currently Amended)** The deviceDevice according to claim 93, wherein said central control unit comprises a central index, which comprises a record of each position associated with said transporting system, and wherein said index contains information about whether the respective position in the transporting system carries a banknote or not.

11. **(Currently Amended)** The deviceDevice according to claim 93, wherein said transporting system is allocated positional locations of a mutual distance that in any position permits a transportation of at least a banknote being largest in physical size of the banknotes that may be present in said banknote handling.

12. **(Currently Amended)** The deviceDevice according to claim 93, wherein said infeeding and outfeeding unit and the respective storing unit are adapted to an infeed and outfeed of banknotes taking place synchronously with the motion of said transporting system.

13. **(Currently Amended)** The deviceDevice according to claim 93,

wherein said central control unit is adapted to be able to read the apprehension of the respective local control unit, and of said ingoing and outgoing control unit upon the presence of such a one, regarding the position of said transporting system.

14. **(Currently Amended)** The deviceDevice according to claim 13,

wherein said reading constitutes a part of a performance inspection carried out upon a stationary transporting system.

15. **(Currently Amended)** The deviceDevice according to claim 143,

wherein an initiation of said device can take place by the fact that said central control unit is adapted to communicate a reference position of said transporting system to all other control units upon a stationary transporting system.

16. **(Currently Amended)** The deviceDevice according to claim 143,

wherein an update of said device can take place by the fact that a current position of said transporting system is communicated to all control units upon a new position of said transporting system, wherein said current position can be communicated upon a transporting system in motion, and wherein said communication takes place autonomously.

17. **(Currently Amended)** The deviceDevice according to claim 16, wherein said central control unit is adapted to communicate the identical numerical value of the position of said transporting system to all local control units upon said initiation and said update, and wherein said central control unit is adapted to calculate and communicate relative position readings adapted to the respective local storage unit upon the indication of the position of a banknote in said transporting system.

18. **(Currently Amended)** The deviceDevice according to claim ~~16~~3, wherein said central control unit communicates with other control units by means of a common data link having low bandwidth requirements.

19. **(Currently Amended)** The deviceDevice according to claim ~~16~~3, wherein the respective control unit comprises an index, which is adapted to be incremented in order to always represent the current position of said transporting system, wherein the respective index is adapted to handle positions that exceed a number of turns around said transporting system, wherein when the respective index is incremented from the maximum value thereof, the respective index gets the value of 0 (zero), and wherein all calculations are made modulo the maximum value of the respective index + 1.

20. **(Currently Amended)** The deviceDevice according to ~~claims~~claim ~~19~~3, wherein an initiation of said device can take place by the fact that

said central control unit is adapted to communicate a reference position of  
said transporting system to all other control units upon a stationary  
transporting system, the respective control unit comprises an index,  
which is adapted to be incremented in order to always represent the  
current position of said transporting system, wherein the respective index  
is adapted to handle positions that exceed a number of turns around said  
transporting system, wherein when the respective index is incremented  
from the maximum value thereof, the respective index gets the value of 0  
(zero), and wherein all calculations are made modulo the maximum value  
of the respective index + 1, and wherein the instantaneous position of  
said transporting system in operation is communicated to the respective  
control unit by means of a transfer mechanism adapted to utilize two  
signals in quadrature, and wherein a third signal is used for the zero  
setting of the respective index upon an initiation of said device.

21-24. **(Cancel)**